

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Michael Seibert et al.) Art Unit: Not Yet Accorded
Serial No.: Not Yet Accorded) Examiner: Not Yet Accorded
Filing Date: Not Yet Accorded)
Title: Fluorescence Technique for On-Line) Atty. Docket No.: NREL 02-09
Monitoring of State of Hydrogen-)
Producing Microorganisms)

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97(b)

Commissioner for Patents
U.S. Patent & Trademark Office
P.O. Box 1450
MS Patent Application
Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing of a first office action of the above-identified application. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

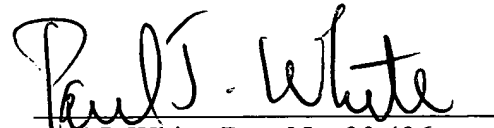
That each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application.

In accordance with 37 C.F.R. § 1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided.

No representation is made that a reference is "prior art" within the meaning of 35 USC §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Respectfully submitted,


Paul J. White, Reg. No. 30,436
Attorney for Applicants

Dated: October. 18, 2004.

National Renewable Energy Laboratory
1617 Cole Boulevard
Golden, CO 80401
303/384-7575

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	Not Yet Accorded
Filing Date	Not Yet Accorded
First Named Inventor	Michael Seibert
Art Unit	Not Yet Accorded
Examiner Name	Not Yet Accorded
Attorney Docket Number	NREL IR 02-09

Sheet 1 of 2

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- 5,372,784	12/13/1994	Morris et al.	
	2	US- 5,700,370	12/23/1997	Helmo	
	3	US- 5,981,958	11/09/1999	Li et al.	
	4	US- 6,107,033	08/22/2000	Welling et al.	
	5	US- 6,410,258 B1	06/25/2002	McTavish	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number Kind ⁴ Code ⁵ (if known)				
	1	DE 19930865	02/01/2001	Schreiber		

Examiner Signature	Date Considered
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08B (08-03)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	Not Yet Accorded
		Filing Date	Not Yet Accorded
		First Named Inventor	Michael Seibert
		Art Unit	Not Yet Accorded
		Examiner Name	Not Yet Accorded
Sheet 2	of 2	Attorney Docket Number	NREL IR 02-09

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1.	Boichenko, V. et al., "Simultaneous Measurements of Fluorescence Induction and Light-Induced Hydrogen Evolution in Chorella" Biofizika 1983, 28(6) 976-9.	
	2.	Serodio, J. et al., "Relationship Between Chlorophyll Fluorescence Quenching and O2 evolution in Microalgae." Photosynthesis: Mechanisms and Effects. Vol. V., 4109-4112, Kluwer Academic Publishers, August 17-22, 1998 presented.	
	3.	Melis, et al. 2000. Plant Physiol V. 122. pg. 127-136, "Sustained Photobiological Hydrogen Gas Production Upon Reversible Inactivation of Oxygen Evolution in the Green Alga Chlamydomonas reinhardtii".	
	4.	Ghirardi et al. 2000, a Trends Biotechnol. V. 18, pp. 506-511, "Microalgae: A Green Source of Renewable H2".	

Examiner Signature	Date Considered
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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